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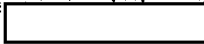
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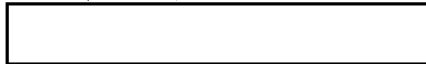


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PHOTOGRAPHIC INTERPRETATION REPORT

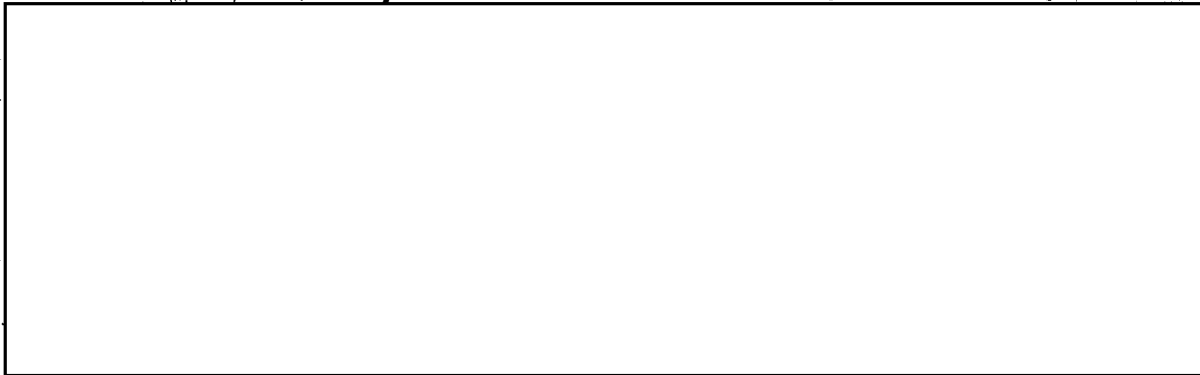
IZHEVSK ARMS AND MACHINERY EQUIPMENT PLANTS 71 AND 74. IZHEVSK, USSR



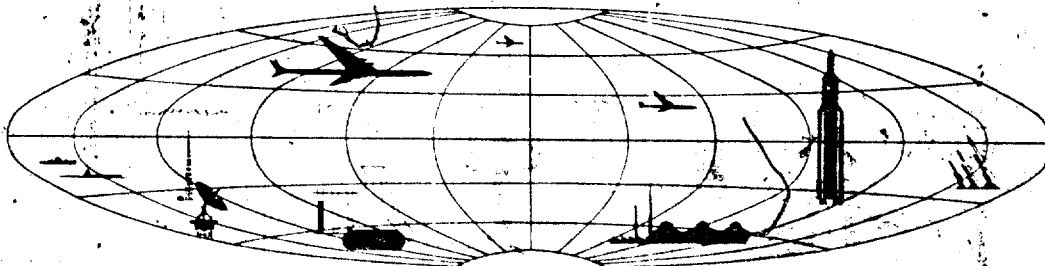
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IZHEVSK ARMS AND MACHINERY
EQUIPMENT PLANTS 71 AND 74, IZHEVSK, USSR
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SUMMARY

[REDACTED] photography of Arms and Machinery Equipment Plants 71 and 74 in Izhevsk, USSR, reveals that expansion of the plant's fabrication/assembly capacity is in progress. A large fabrication building seen in the midstage of construction in [REDACTED] is now in a late stage of construction. The presence of the new production building under construction immediately southwest of Plants 71 and 74, and the clearing of a residential area immediately west of the

plants, may be related to an intended increase of the production capacity of Plants 71 and 74. While there is no direct photographic evidence of missile/airframe production at Plants 71 and 74, the large size of the production building under construction and the presence of a large fabrication building in an unidentified industrial installation 4 nautical miles to the northeast may indicate a potential missile/airframe production capability.

INTRODUCTION

Two important Soviet armaments and machine equipment plants, Plant 71 and Plant 74, are located in the city of Izhevsk, USSR (Figure 1), at 56-49-30N 53-10-25E. The two plants form a single integrated installation situated in the central part of the city at the southern end of Izhevskiy Prud (pond). The plants are about 20 nautical miles (nm) north of the main line of the Trans-Siberian Railroad, and they are served by a branch line leading from Agryz to Kirov.

During World War II, Plants 71 and 74 produced infantry and artillery weapons, and it is reported to be the second most important producer of small arms and machineguns in the USSR. 1/ Steel produced at this installation is apparently utilized within the plants or by their subsidiaries within the Izhevsk Complex (Figure 1). In 1960 Plant 74 markings were observed on ground photographs of SZ-35L meteorological

rocket sondes. 2/ Recent reports indicate that both Plant 71 and Plant 74 are currently involved in the Soviet guided missile program. Plant 71 has been associated [REDACTED] with the Dnepropetrovsk Missile Development and Production Center (DMDPC), and the city of Izhevsk has been visited frequently by missile-associated aircraft. 3/

The Izhevsk Arms and Machinery Equipment Plants 71 and 74 were the subject of a previous photographic interpretation report based on poor-quality [REDACTED] coverage obtained between [REDACTED] 2/ Comparison of the 1962 photography with most recent photography reveals that the installation is undergoing expansion.

This report is based on [REDACTED] photography of [REDACTED] [REDACTED] photography is of very good quality and permits recog-

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dition of smoke stacks, steamlines, and rail lines; however, the resolution of this photography is still not high enough to permit recognition of materials in open storage, vehicles, and similar details.

Both the [redacted] photography of Plants 71 and 74 has been examined for evidence of missile-related activity. While no direct evidence of this relationship has been detected, certain observations were made which may be pertinent. Major buildings

within the installation and nearby facilities are described in this report, and changes that have taken place are reported along with estimates, when possible, of the dates when such changes took place. Brief descriptions and dimensions of 16 major items within the installation are presented in Table 1. Detailed information about support facilities, both within and adjacent to the plant area, and possibly associated installations in the Izhevsk area is presented in Table 2.

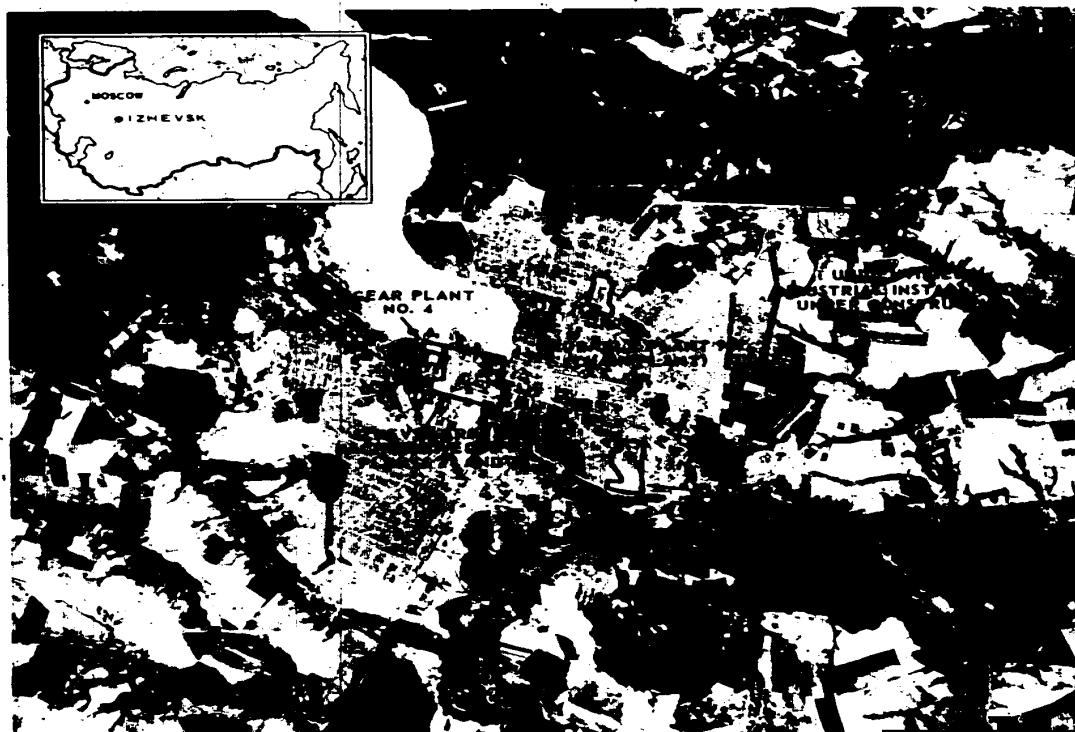


FIGURE 1. CITY OF IZHEVSK, USSR.

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IZHEVSK PLANTS 71 AND 74

Plants 71 and 74 in Izhevsk are contained in a fenced area measuring about 3,300 by 3,700 feet and consist of approximately 16 major buildings and several smaller support buildings (Figures 2 and 3).

According to a collateral report released in 1951, the plant complex is divided administratively into two parts. Heavy industrial operations (iron and steel foundries, rolling mills, forges, workshops) are consolidated under the administration of Plant 71, and all armament production is under the administration of Plant 74. Apparently, this administrative division is also reflected in the physical layout of the plant complex, although there may be some overlapping of the various areas. Plant 71 (heavy industrial facilities) occupies the southern half and some of the central part of the plant area, and Plant 74 (armaments fabrication facilities) occupies the northwestern quadrant of the area. Utility/service facilities occupy the northeastern sector.

A comparison of the plant area as it appeared on the 1962 photograph with its appearance on [REDACTED] photography reveals that expansion of the plant's fabrication/assembly capacity is in progress. This is the first expansion noted on photography since the first [REDACTED] coverage in 1962. A large fabrication building (item 16, Figure 2) measuring 750 by 555 feet was first seen in the midstage of construction on photography of [REDACTED]. As seen on the most recent photograph [REDACTED] the building is in the late stage of construction. Of possible significance is the fact that the first indication that a building was to be constructed appeared on photography of [REDACTED] as an area of cleared buildings similar to a cleared area west of the plant seen on the [REDACTED] photography (item c, Figure 3).

Descriptions and dimensions of the major facilities of the two plants are presented in Table 1 which is keyed to Figure 2. All items except the new fabrication building (item 16) were present in [REDACTED].

SUPPORT FACILITIES AND POSSIBLY RELATED AREAS

A number of support facilities and other related areas are located within and near the fenced area containing Plants 71 and 74. These facilities and areas are described in some detail in Table 2 which is keyed to Figure 3; only those of special interest are discussed in the following paragraphs.

Clearing of residential buildings is taking place west of the plant area (item c, Figure 3), and this may be indicative of future industrial expansion.

An unidentified facility is under construction in an area southwest of Plants 71 and 74 (item J). Three support-type buildings have

been constructed since [REDACTED] and a new production building has been constructed since [REDACTED]. This facility is rail served by a branch of the same spur that serves Plants 71 and 74, but it lacks a direct link with those plants. This facility has 221,075 square feet of roof coverage.

Two unidentified mechanical process buildings are located at the end of a rail-served freight yard (item J). The elaborate conveyer system indicates some type of bulk material handling. This area is connected to the main plant by a steamline but lacks any other physical connection.

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Table 1. Descriptions of Major Facilities of Izhevsk Arms and Machinery Equipment Plants 71 and 74
(Items are keyed to Figure 2)

Item	Description	Dimensions (ft)	Roof Cover (sq ft)
1	Fabrication assembly building	840 x 215	180,600
2	Machine workshop building, U-shaped	base 724 x 95 leg 220 x 55 leg 225 x 55	66,760 12,650 12,375 91,805
3	Fabrication assembly building	455 x 295	134,225
4	Possible machine shop	irregular	103,500
5	Fabrication assembly building	550 x 350	192,500
6	Probable special products steel mill, product unknown	a 710 x 65 b 465 x 65 c 535 x 65 d 280 x 65	46,150 30,225 34,775 18,200 129,350
7	General-purpose workshop storage building	a 1,175 x 65 b irregular c irregular d irregular e irregular f irregular	76,375 26,650 39,900 41,375 34,600 16,500 237,600
8	Possible special products steel mill, product unknown	irregular	52,500
9	Probable special products steel mill, product unknown	irregular	134,925
10	Possible wire mill	irregular	170,400
11	Steel rolling mill and fabrication section	a - probable fabrication packing section 370 x 350 b - rolling mill section 485 x 140 c - rolling mill section irregular d - rolling mill section 815 x 220 e - possible blooming slab mill section irregular f - soaking pits 585 x 255	129,500 66,320 55,500 179,300 62,900 149,175 640,695
12	Probable foundry building, three stacks	irregular	118,900
13	Possible foundry electric furnace building	irregular	172,625
14	Possible storage building	720 x 120	86,400
15	Probable open hearth building	irregular	175,000
16	Fabrication assembly building	750 x 555	416,250

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FIGURE 2. IZHEVSK ARMS AND MACHINERY EQUIPMENT PLANTS 71 AND 74.

SUBSIDIARY PLANTS OF IZHEVSK ARMS PLANTS 71 AND 74

Plants 71 and 74 are reported to be the main elements of the arms complex located in Izhevsk. Several subsidiary plants that receive steel and other products from and, in turn, supply components to Plants 71 and 74 are scattered about the city (Figure 1).

The largest of the subsidiaries is the Izhevsk Arms Plant 622 situated approximately 1.6 nm southeast from the main plant. Plant 622 is a light fabrication-type industrial plant containing three large production buildings, two large machine/workshop buildings, and several small utility support buildings.

Another major subsidiary is the Chain Plant 85, which is probably located about 0.5

nm northeast of the main plant (Figure 1). The plant is categorized as a light fabrication industry and consists of one production building, five machine/workshop buildings, and several smaller support structures.

Gear Plant No 4 is the subsidiary located nearest the main arms plant. It is just west of the fabrication section of Plant 74 (Figure 3). This light fabrication industry consists basically of one large production building and a number of smaller support buildings.

A new unidentified industrial installation under construction is located approximately 4 nm northeast of Plants 71 and 74. This instal-

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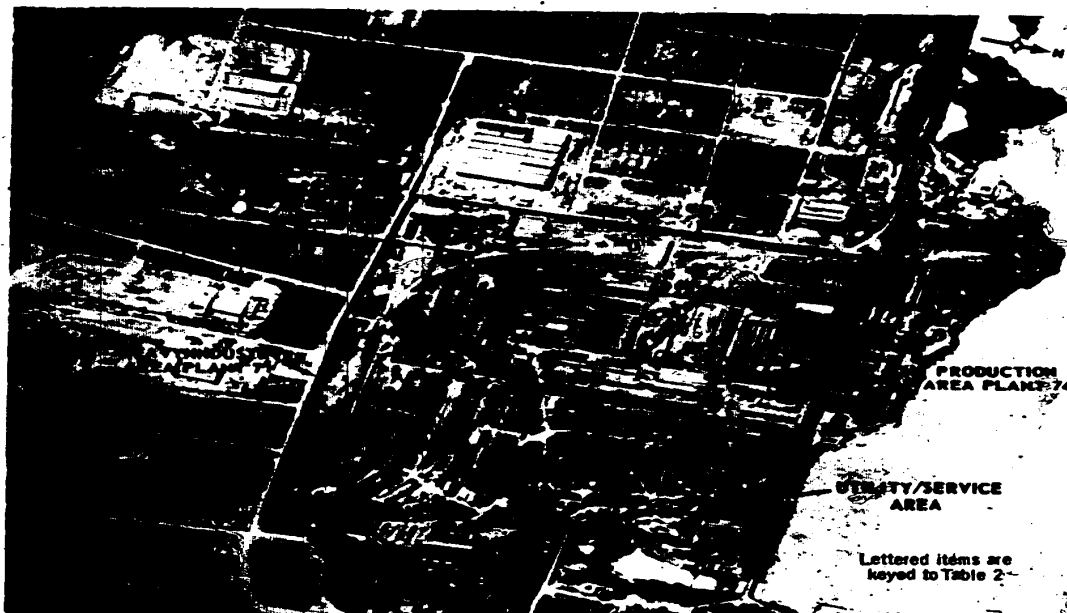


FIGURE 3. IZHEVSK ARMS AND MACHINERY EQUIPMENT PLANTS 71 AND 74.

lation contains a large production building which has approximately 672,000 square feet of roof cover. The roof of this building is in two levels; the higher portion is not of sufficient height to be considered a high bay section, but the high section does contain two large monitors indicative of large travelling cranes which would provide a capability for handling large, rather

tall objects. A tall building estimated to be 75 feet in height located just east of the large building has been constructed since [redacted]. The purpose of this building is not known at present; however, its height and the cluttered appearance of the roof imply a specialized function which may be determined when the installation is complete and operating.

CONCLUSIONS

Although excellent [redacted] coverage of Plants-71 and 74 has been obtained, there is not yet sufficient photographic evidence to relate these plants directly to the Soviet missile program.

The design and dimensions (750 by 555 feet) of the new building in the southwest corner of the plant area (item 16, Figure 2) are such that the building can be identified with the light fabrication industry of which missile/airframe

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Table 2. Descriptions of Support Facilities and other Areas Possibly Associated with Plants 71 and 74
(Items are keyed to Figure 3)

Item	Identification	Description
A B	Izhevsk Thermal Power Plant Gear Plant No. 4	One large fabrication/assembly building Six smaller workshop/support buildings Other smaller structures Residential buildings removed may be area of future industrial construction
C	Cleared Area	
D E	Rail classification and holding yard Utility storage area	Eight workshop buildings Ten warehouse-type buildings Steamplant Numerous small support buildings Two L-shaped storage sheds Road-served open storage area
F	Storage Area	
G H	Probable coke/gas plant Storage/support area for coke/gas plant	Eight storage/support buildings Bulk materials handling facility Open storage yards Three warehouse-type buildings (two constructed since [redacted])
I	New construction area	One new fabrication building (new since [redacted]) Large rail-served open storage yard Two large bulk material handling buildings with elaborate conveyer system Several small support buildings Freight yard and open storage area
J	Unidentified mechanical process industry	

manufacture is a part, and this facility is considered at least potentially capable of housing such a manufacturing function.

The large building (1,120 by 605 feet) in the unidentified industrial installation (Figure 1) 4 nm northeast of Plants 71 and 74 can also

be identified with the light fabrication industry; on the basis of its appearance in the present stage of its development, it should also be considered as being potentially capable of missile/airframe production.

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REFERENCES

[REDACTED]

MAPS OR CHARTS

ACIC. US Air Target Chart, Series 200, Sheet 0155-20AL, 2d ed, Jan 60, scale 1:200,000 (SECRET)

ACIC. US Air Complex Chart, Series 25, Sheet 0155-9998-025A, 1st ed, Nov 63, scale 1:25,000 (SECRET)

DOCUMENTS

1. USAF USTIS 0155-0006 TIS, *Izhevsk Arms and Machine Equipment Plants 71 and 74, USSR*, 28 Dec 51 (SECRET)

2. NPIC R-162 62, *Izhevsk Arms and Machinery Equipment Plants 71 & 74, Izhevsk, USSR*, Dec 62 (TOP SECRET [REDACTED])

3. USAFSS. SWESUM 64-01, *Special Weapons Summary*, 15 Jan 64 (TOP SECRET [REDACTED])

REQUIREMENT

CIA. C-RR4-61,538

NPIC PROJECT

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